

Amendments to the Specification

Please replace paragraph 00017 with the following amended paragraph:

--[00017] For a more complete understanding of the features and advantages of the present invention, reference is now made to the detailed description of the invention along with the accompanying figures, wherein:

FIGURE 1 is a schematic representation of the pathway of detoxification mechanisms of xeno- and endobiotics showing the role of a transporter such as RLIP76;

FIGURE 2 depicts human RLIP76 cDNA nucleotide sequence [SEQ ID NO.: 1], deduced amino acid sequence [SEQ ID NO.: 2] and peptide characterization;

FIGURE 3 depicts the effect of heat shock and H₂O₂ exposure on GS-HNE transport in K562 cells;

FIGURE 4 depicts (A) the effect of heat shock on the H₂O₂ mediated cytotoxicity in K562 cells and (B) the protective effect of heat shock and H₂O₂ pre-treatment on H₂O₂ induced apoptosis in K562 cells;

FIGURE 5 depicts the effect of anti-RLIP76 IgG on 4-HNE mediated apoptosis in heat shock pre-conditioned cells;

FIGURE 6 depicts the effect of RLIP76 on radiation sensitivity, wherein the mean and standard deviation of values from three groups shown are: without treatment with liposomes (circle), treatment with liposomes without RLIP76 (square), and treatment with liposomes with RLIP76 (triangle); and

FIGURE 7 depicts examples of the physiological significance of RLIP76. All figures are in accordance with at least one aspect of the present invention;

FIGURE 8 depicts the knockout and genotyping strategy as embodied in one aspect of the present invention;

FIGURE 9 depicts the effect of RIP1 on radiation sensitivity in male C57 mouse as embodied in one aspect of the present invention;

FIGURE 10 depicts the effect of RIP1 knockout, radiation and gender on DOX and DNP-SG transport as embodied in one aspect of the present invention;

FIGURE 11 depicts tissue-specific effects of RIP1 knockout on parameters reflecting oxidative stress in un-irradiated animals;

FIGURE 12 depicts tissue-specific effects of RIP1 knockout on parameters reflecting oxidative stress in X-irradiated animals; and

FIGURE 13 depicts sample results of one way, two way and three way interactions of gender, genotype and radiation by ANOVA.--

In addition, please insert in the Specification a paper copy of the Sequence Listing attached herewith as required under 37 C.F.R. § 1.821(c). The undersigned certifies that no new matter has been introduced into the Specification by addition of these pages Sequence Listing pages.